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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

04/24/2008

Brian R. Short Tropos Networks PO Box 641867 San Jose, CA 95164-1867 EXAMINER

AJIBADE AKONAI, OLUMIDE

PAPER NUMBER

ART UNIT

DATE MAILED: 04/24/2008

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/693,721	10/25/2003	Amalavoyal Narasimha Chari	TROPOS-1006-CON	5348

TITLE OF INVENTION: PROVIDING ROUTING PATHS FOR WIRELESS DEVICES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	07/24/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 7590 04/24/2008				Fee(s) papers	Transmittal. This . Each additional	certifi paper,	cate cannot be used fo	domestic mailings of the r any other accompanying t or formal drawing, must
Brian R. Short Tropos Network PO Box 641867	72006	I S a t	I herel States addres transm	Certi by certify that this Postal Service wi sed to the Mail nitted to the USPT	ficate Fee(s th suff Stop 1 O (571	of Mailing or Transn) Transmittal is being icient postage for first SSUE FEE address a) 273-2885, on the da	nission deposited with the United class mail in an envelope above, or being facsimile te indicated below.	
San Jose, CA 95	0164-1867		_					(Depositor's name)
			-					(Signature)
			L					(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR		. ATTORNEY DOCE		RNEY DOCKET NO.	CONFIRMATION NO.
10/693,721 TITLE OF INVENTION	10/25/2003 I: PROVIDING ROUTIN	A NG PATHS FOR WIREL	Amalavoyal Narasimha ESS DEVICES	Chari		TRO	POS-1006-CON	5348
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nonprovisional	YES	\$720	\$300		\$ 0		\$1020	07/24/2008
EXAM	EXAMINER		CLASS-SUBCLASS	5				
AJIBADE AKO	NAI, OLUMIDE	2617	370-351000	_				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	nge of Correspondence I Indication form and Use of a Customer	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. ON THE PATENT (print or type)						
recordation as set fort (A) NAME OF ASSI Please check the appropr	th in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	T a substitute for filing (B) RESIDENCE: (Cl	an ass	signment. nd STATE OR CC	DUNT	RY)	cument has been filed for up entity 🖵 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	ns SMALL ENTITY statu	is. See 37 CFR 1.27.					TTY status. See 37 CF ttorney or agent; or the	R 1.27(g)(2).
interest as shown by the	records of the United Sta	tes Patent and Trademark	COffice.					
Authorized Signature			Date					
Typed or printed name			Registration No.					
an application Confiden	tiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC	U.S.C. 122 and 37 CFR	1.14 This collection is	estim	nated to take 12 m	inutes	to complete including	by the USPTO to process), gathering, preparing, and the you require to complete truent of Commerce, P.O. or Patents, P.O. Box 1450,

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10/693,721 10/25/2003		Amalavoyal Narasimha Chari	TROPOS-1006-CON 5348		
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Brian R. Short			AJIBADE AKONAI, OLUMIDE		
Tropos Networks			ART UNIT	PAPER NUMBER	
PO Box 641867 San Jose, CA 9516	4-1867		2617 DATE MAILED: 04/24/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1000 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1000 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/693.721	CHARI ET AL.
Notice of Allowability	Examiner	Art Unit
	OLUMIDE T. AJIBADE AKONAI	2617
	OLUMBE 1. ASIBADE AKONAI	2017
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>01/22/2008</u> .		
2. X The allowed claim(s) is/are 40-44,46-63 and 66-79.		
3. Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:		
 Certified copies of the priority documents have 	been received.	
Certified copies of the priority documents have	been received in Application No	·
Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5.	Patent Application
 Induce of References Cited (PTO-692) Induce of References Cited (PTO-	6. ☐ Interview Summary	
•	Paper No./Mail Dat	te
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amendr	nent/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
-	9.	

DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on January 22 2008 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Patent Number 6,704,301 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

2. Claims 40-44, 46-63, and 66-79 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding **claim 40**, the most relevant prior art of record, Lee et al. (5,224,100), discloses receiving a broadcast beacon at a client; the client deriving information from the beacon, the information allowing the client to identify all other clients in a multi-hop path from the client to a server; further comprising the client; storing every beacon received.

The instant invention discloses designating one path identified by one beacon as the optimal path; setting a default gateway as identified in the optimal path; and rebroadcasting only the beacon representing the optimal path.

The above novel features in combination with all the recited limitations of claim 40 are neither taught, suggested nor made obvious by Lee et al or any other prior art of record. Claims 41-48, and 53-63 are allowable based on their being dependent on claim 40.

Regarding **claim 49**, the prior art of record, Lee et al. (5,224,100) discloses receiving a broadcast beacon at a client; the client deriving information from the beacon, the information allowing the client to identify all other clients in a multi-hop path from the client to a server.

The instant invention discloses wherein the broadcast beacon includes a sequence number representing a current routing cycle.

The above novel features in combination with all the recited limitations of claim 49 are neither taught, suggested nor made obvious by Lee et al or any other prior art of record. Claims 50-52 are allowable based on their being dependent on claim 49.

Regarding **claim 66**, the prior art of record, Lee et al. (5,224,100) discloses receiving a beacon from one of the server or another client, the client deriving information from the beacon, the information allowing the client to identify all other clients in a multi-hop path from the client to a server.

The instant invention discloses wherein the beacon includes a sequence number representing a current routing cycle; rebroadcasting one beacon received from an upstream node; and broadcasting a reverse beacon upstream, the reverse beacon being addressed to the known upstream node, the reverse beacon used by the server and each client to set up a routing table.

The above novel features in combination with all the recited limitations of claim 66 are neither taught, suggested nor made obvious by Lee et al or any other prior art of record. Claims 67-79 are allowable based on their being dependent on claim 66.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Weinstein et al 6,977,937 discloses a radio network routing apparatus.

Toh 5,987,011 discloses routing method for ad-hoc mobile networks.

Ben-Ayed et al 5,218,676 discloses dynamic routing system for a multinode communications network.

Elliot 6,456,599 discloses distribution of potential neighbor information through an ad hoc network.

Busche 5,805,593 discloses a routing method for setting up a service between an origination node and a destination node in a connection-communications network.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUMIDE T. AJIBADE AKONAI whose telephone number is (571)272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

OA

/Charles N. Appiah/ Supervisory Patent Examiner, Art Unit 2617